

# SAFETY DATA SHEET

## AUTOMATIC DISHWASHING POWDER

According to Regulation (EU) No 453/2010

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

**Product name** AUTOMATIC DISHWASHING POWDER  
**Product No.** 260

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Cleaning agent.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Kitchenmaster NI Ltd  
11 Comber Road  
Belfast  
BT8 8AN  
Tel. 028 90814777  
Fax. 028 90812881  
email: sds@kitchenmaster-ni.com

#### 1.4. Emergency telephone number

028 9081 4777  
08:30 - 17:00 Monday to Thursday  
08:30 - 16:30 Friday

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

**Classification (1999/45/EEC)** C;R34. Xi;R37. R52/53.

##### Human health

Corrosive. Prolonged contact causes serious eye and tissue damage. Dust may irritate throat and respiratory system and cause coughing.

##### Environment

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

#### 2.2. Label elements

**Contains** DISODIUM METASILICATE

##### Detergent Labelling:

15 - < 30% phosphates  
< 5% chlorine-based bleaching agents

##### Labelling



Corrosive

##### Risk Phrases

R34 Causes burns.  
R37 Irritating to respiratory system.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### Safety Phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
S51 Use only in well-ventilated areas.  
S24/25 Avoid contact with skin and eyes.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S60 This material and its container must be disposed of as hazardous waste.  
P6 Warning! Do not use together with other products. May release dangerous gases (chlorine).

# AUTOMATIC DISHWASHING POWDER

## 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

<b>DISODIUM METASILICATE</b>	31-35
CAS-No.: 6834-92-0	EC No.: 229-912-9
Classification (EC 1272/2008) Skin Corr. 1B - H314 STOT SE 3 - H335	Classification (67/548/EEC) C;R34 Xi;R37
<b>SODIUM CARBONATE</b>	31-35
CAS-No.: 497-19-8	EC No.: 207-838-8
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36
<b>SODIUM DICHLOROISOCYANURATE</b>	1-5%
CAS-No.: 2893-78-9	EC No.: 220-767-7
Classification (EC 1272/2008) Ox. Liq. 2 - H272 EUH031 Acute Tox. 4 - H302 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) O;R8 Xn;R22 Xi;R36/37 R31 N;R50/53

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### Inhalation

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention.

##### Ingestion

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention immediately!

##### Skin contact

Remove victim immediately from source of exposure. Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.

##### Eye contact

Remove victim immediately from source of exposure. Immediately flush with plenty of water or eyewash solution for up to 10 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention immediately. Continue to rinse.

#### 4.2. Most important symptoms and effects, both acute and delayed

##### Inhalation.

Dust may irritate respiratory system or lungs.

##### Ingestion

May cause discomfort if swallowed. May cause internal injury.

##### Skin contact

Causes burns.

##### Eye contact

Causes burns.

# AUTOMATIC DISHWASHING POWDER

## **4.3. Indication of any immediate medical attention and special treatment needed**

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Extinguishing media**

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

#### **Unsuitable extinguishing media**

Not relevant

### **5.2. Special hazards arising from the substance or mixture**

#### **Hazardous combustion products**

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

#### **Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

#### **Specific hazards**

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

### **5.3. Advice for firefighters**

#### **Special Fire Fighting Procedures**

Keep run-off water out of sewers and water sources. Dike for water control.

#### **Protective equipment for fire-fighters**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet.

### **6.2. Environmental precautions**

Avoid discharge to the aquatic environment.

### **6.3. Methods and material for containment and cleaning up**

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities. Avoid generation and spreading of dust. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

### **6.4. Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Wash hands after handling.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry, cool and well-ventilated place.

#### **Storage Class**

Corrosive storage.

### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

#### **Ingredient Comments**

No exposure limits noted for ingredient(s).

### **8.2. Exposure controls**

#### **Protective equipment**

# AUTOMATIC DISHWASHING POWDER



## Engineering measures

Provide adequate ventilation.

## Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

## Hand protection

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

## Eye protection

Wear approved safety goggles.

## Other Protection

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

## Hygiene measures

Wash hands after contact. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Crystalline powder.
<b>Odour</b>	Characteristic.
<b>Solubility</b>	Soluble in water.

### 9.2. Other information

Not determined.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reaction with: Acids.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

#### **Hazardous Polymerisation**

Will not polymerise.

### 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid contact with acids.

### 10.5. Incompatible materials

#### **Materials To Avoid**

Acids.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### **Inhalation**

Irritating to respiratory system. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

#### **Ingestion**

Causes burns. May cause internal injury.

#### **Skin contact**

Causes burns. Blistering may occur.

# AUTOMATIC DISHWASHING POWDER

## Eye contact

Causes burns. Risk of corneal damage.

### Toxicological information on ingredients.

#### SODIUM CARBONATE (CAS: 497-19-8)

##### Acute toxicity:

##### **Acute Toxicity (Oral LD50)**

2800 mg/kg Rat

REACH dossier information

##### **Acute Toxicity (Dermal LD50)**

> 2000 mg/kg Rabbit

REACH dossier information

##### **Acute Toxicity (Inhalation LC50)**

2300 mg/m<sup>3</sup> (aerosol) Rat 2 hours

REACH dossier information

#### DISODIUM METASILICATE (CAS: 6834-92-0)

##### Acute toxicity:

##### **Acute Toxicity (Oral LD50)**

994 mg/kg Rat

REACH dossier information

##### **Acute Toxicity (Dermal LD50)**

> 3000 mg/kg Rat

REACH dossier information

##### **Acute Toxicity (Inhalation LC50)**

> 2.06 mg/l (vapours) Rat

REACH dossier information

#### SODIUM DICHLOROISOCYANURATE (CAS: 2893-78-9)

##### Acute toxicity:

##### **Acute Toxicity (Oral LD50)**

1823 mg/kg Rat

REACH dossier information

##### **Acute Toxicity (Dermal LD50)**

> 5000 mg/kg Rat

REACH dossier information

##### **Acute Toxicity (Inhalation LC50)**

> 0.27 mg/l (dust/mist) Rat 4 hours

REACH dossier information

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

### 12.1. Toxicity

# AUTOMATIC DISHWASHING POWDER

## Ecological information on ingredients.

### SODIUM CARBONATE (CAS: 497-19-8)

#### **Acute Toxicity - Fish**

LC50 96 hours 300 mg/l *Lepomis macrochirus* (Bluegill)

REACH dossier information

#### **Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 200 mg/l *Ceriodaphnia* sp.

REACH dossier information

### DISODIUM METASILICATE (CAS: 6834-92-0)

#### **Acute Toxicity - Fish**

LC50 96 hours 210 mg/l *Brachydanio rerio* (Zebra Fish)

REACH dossier information

#### **Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 7.8 pH *Daphnia magna*

REACH dossier information

#### **Acute Toxicity - Aquatic Plants**

EC50 72 hours 207 mg/l *Desmodosmus subspicatus*

REACH dossier information

### SODIUM DICHLOROISOCYANURATE (CAS: 2893-78-9)

#### **Acute Toxicity - Fish**

LC50 96 hours > 1000 mg/l *Lepomis macrochirus* (Bluegill)

REACH dossier information

#### **Acute Toxicity - Aquatic Invertebrates**

LC50 48 hours > 1000 mg/l *Daphnia magna*

REACH dossier information

#### **Acute Toxicity - Aquatic Plants**

EC50 72 hours > 100 mg/l *Skeletonema costatum*

REACH dossier information

NOEC 72 hours 100 mg/l *Skeletonema costatum*

REACH dossier information

## **12.2. Persistence and degradability**

### **Degradability**

There are no data on the degradability of this product.

## Ecological information on ingredients.

### DISODIUM METASILICATE (CAS: 6834-92-0)

#### **Biodegradation**

Scientifically unjustified.

REACH dossier information

## **12.3. Bioaccumulative potential**

### **Bioaccumulative potential**

No data available on bioaccumulation.

## **12.4. Mobility in soil**

### **Mobility:**

The product is soluble in water.

## **12.5. Results of PBT and vPvB assessment**

Not determined.

## **12.6. Other adverse effects**

Not determined.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **General information**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

# AUTOMATIC DISHWASHING POWDER

## 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN No. (ADR/RID/ADN)	3253
UN No. (IMDG)	3253
UN No. (ICAO)	3253

### 14.2. UN proper shipping name

Proper Shipping Name DISODIUM TRIOXOSILICATE, MIXTURE

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8
Transport Labels	



### 14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

### 14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2X
Hazard No. (ADR)	80

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

#### Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

#### Guidance Notes

Workplace Exposure Limits EH40.

# AUTOMATIC DISHWASHING POWDER

## EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

### Revision Comments

Re-issued according to Regulation (EU) No 453/2010.

**Revision Date** 04-2012

**Revision** 3

**Supersedes date** 04-2008

### Risk Phrases In Full

R34 Causes burns.  
R31 Contact with acids liberates toxic gas.  
R8 Contact with combustible material may cause fire.  
R22 Harmful if swallowed.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R36/37 Irritating to eyes and respiratory system.  
R36 Irritating to eyes.  
R37 Irritating to respiratory system.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Hazard Statements In Full

H319 Causes serious eye irritation.  
H314 Causes severe skin burns and eye damage.  
EUH031 Contact with acids liberates toxic gas.  
H302 Harmful if swallowed.  
H412 Harmful to aquatic life with long lasting effects.  
H335 May cause respiratory irritation.  
H272 May intensify fire; oxidiser.  
H410 Very toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.